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NOTICE OF ALLOWANCE AND FEE(S) DUE

23657

7590

04/21/2009

FOX ROTHSCHILD LLP 2000 MARKET STREET PHILADELPHIA, PA 19103 EXAMINER
OH, TAYLOR V
ART UNIT PAPER NUMBER

1625

DATE MAILED: 04/21/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.

10/537,973 06/09/2005 Bernhard Gutsche C 2745 PCT/US 6953

TITLE OF INVENTION: METHOD FOR PRODUCING LINEAR OR BRANCHED FATTY ACID ESTERS BY MEANS OF HETEROGENEOUSLY CATALYSED REACTIVE RECTIFICATION WITH AN UPSTREAM REACTOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/21/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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							(Signature)	
							(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.	
10/537,973	06/09/2005	•	Bernhard Gutsche		C 2745 PCT/US 6953			
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	07/21/2009	
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
ОН, ТА	YLOR V	1625	554-174000					
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED OF			or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attorned in the control of the	the names of up to 3 registered patent attorneys agents OR, alternatively, the name of a single firm (having as a member a gistered attorney or agent) and the names of up to egistered patent attorneys or agents. If no name is ed, no name will be printed. ATENT (print or type)				
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	ess an assignee is identi h in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	data will appear on the part of the part o	atent. If an assigne assignment. and STATE OR C	OUNT	RY)	ocument has been filed for	
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a. Applicant claim	tus (from status indicated s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no long					
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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/537,973 06/09/2005 Bernhard Gutsche C 2745 PCT/US 6953 **EXAMINER** 23657 7590 04/21/2009 OH, TAYLOR V FOX ROTHSCHILD LLP 2000 MARKET STREET ART UNIT PAPER NUMBER PHILADELPHIA, PA 19103 1625 DATE MAILED: 04/21/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 328 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 328 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
Nation of Allowability	10/537,973	GUTSCHE ET AL.
Notice of Allowability	Examiner	Art Unit
	Taylor Victor Oh	1625
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>2/03/09</u> .		
2. The allowed claim(s) is/are 13-23,25-26, renumbered as c	<i>laims 1-13</i> .	
 3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN 	e been received. e been received in Application No cuments have been received in this of this communication to file a reply	national stage application from the
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
 5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date (b) Including changes required by the attached Examiner Paper No./Mail Date (b) Including changes required by the attached Examiner Paper No./Mail Date (c) Including changes required by the attached Examiner Section 1. Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the such attached Examiner's comment regarding REQUIREMENT 	son's Patent Drawing Review (PTO- s Amendment / Comment or in the C .84(c)) should be written on the drawing the header according to 37 CFR 1.121(ssit of BIOLOGICAL MATERIAL r	Office action of ngs in the front (not the back) of d). must be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	9. ⊠ Other <u>drawing filed</u>	(PTO-413), te
	<u>examiner</u> .	



Application No.

Art Unit: 1625

The Status of Claims:

Claims 13-23, 25-26 are pending.

Claims 13-23, 25-26 are rejected.

Reasons of Allowance

The following is an examiner's statement of reasons for allowance:

The close prior art to the current invention are Kahsnitz et al (US 5,177,229) and Bremus et al (US 5,008,046) and Aslam et al (Kirk –Othermer Encyclopedia of Chemical Technology, vol. 10, 12/4/2000, p.477).

Kahsnitz et al discloses the process for the preparation of ester in the followings:

Alcohols and acids are esterified by means of liquidphase equilibrium reactions on ion exchangers in an apparatus comprising a prereactor and a rectifying column with external reactors. The process is characterized by the fact that a portion of one of the starting compounds is fed directly to the external reactors.

Bremus et al discloses the following esterification process:

component of the process is a reaction column 1, comprising a plurality of bubble plates, surmounted by the rectifying section 2. The catalyst or catalyst solution, optionally after heating, is delivered through a pipe 3 to the uppermost plate of the reaction column 1, as is the fatty acid (through a pipe 4), the fatty acid being heated by means of a heat exchanger 5 before delivery to the reaction column. The fresh alkanol is delivered through a pipe 6 to a second heat exchanger 7, superheated and directly introduced into the reaction column 1 through a pipe 8 immediately above the sump of the column. Fresh alkanol refers to alkanol which has not been recycled through the process.

Furthermore, Aslam et al discloses the use of the various catalysts in the esterification process .

The instant invention, however, differs from the prior art in that there is no suggestion that there are two separate esterifications in the presence of the heterogeneous catalyst; the step is involved in removing water before feeding into the main countercurrent reactor with attached rectifying column on top. Therefore, the claimed invention would not have been obvious to the person with an ordinary skill in the art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance.

Any inquiry concerning the communication after allowance such as sending all postallowance correspondence should be directed to "Box Issue Fee" or faxed directly to PUBS at 703-305-8755. This will expedite the process of these papers. Application/Control Number: 10/537,973 Page 4

Art Unit: 1625

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Taylor Victor Oh/ Primary Examiner, Art Unit 1625 4/16/09

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